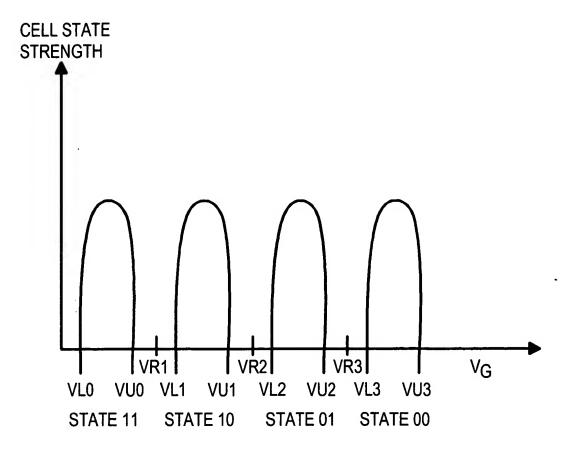


FIG. 1

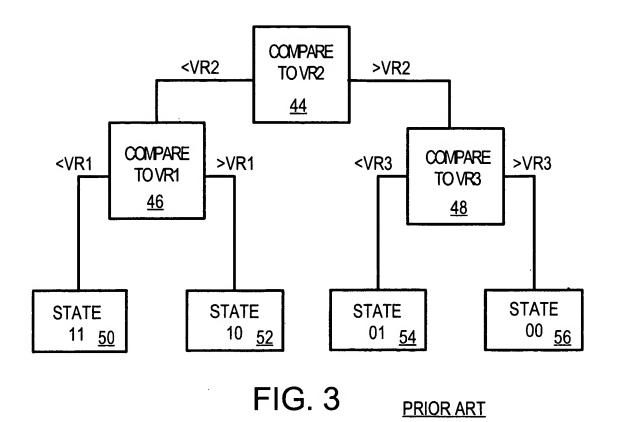
¥ a



PRIOR ART

, F .

FIG. 2



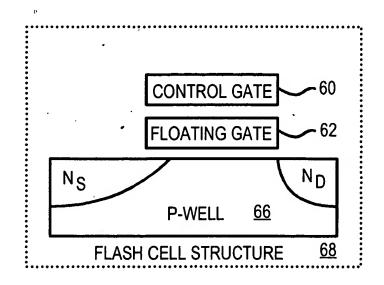


FIG. 4A

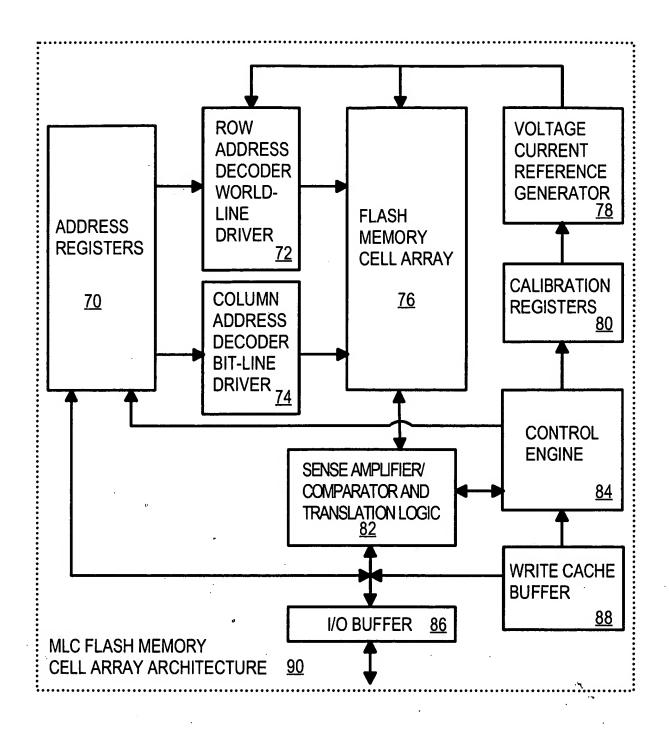
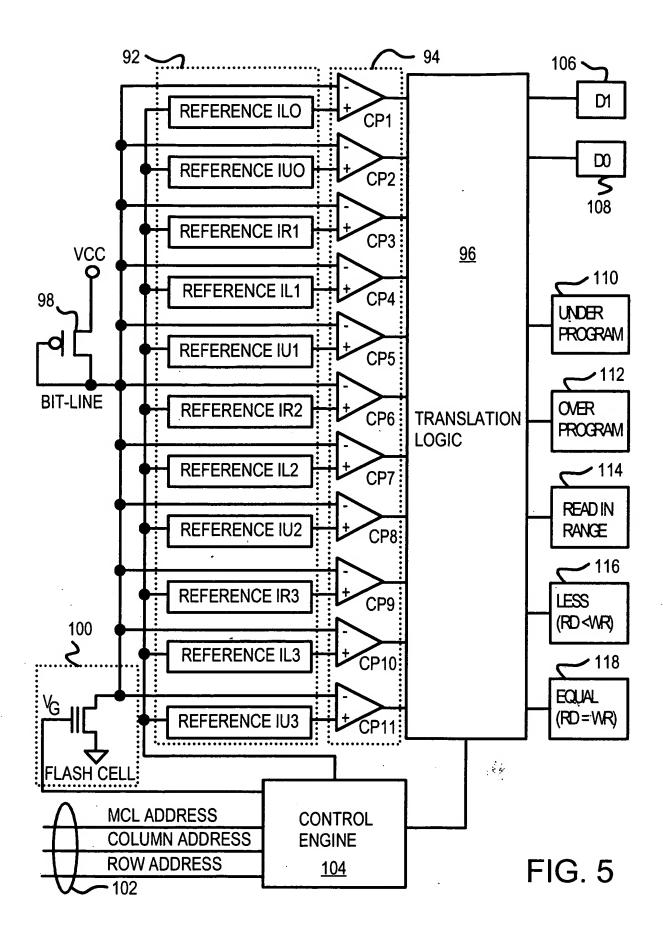


FIG. 4B



	PRIOR ART	INVENTION										
CELL SIZE	READ ACCESS TIME	READ ACCESS TIME										
2-BIT PER CELL	TC + 2TS + TR	TC + TS + TR										
3-BIT PER CELL	TC + 3TS + TR	TC + TS + TR										
N-BIT PER CELL	TC + nTS + TR	TC + TS + TR										
	TC: READ ACCESS TIME FO	TC: READ ACCESS TIME FOR FLASH CELL										
	TS: SENSE AMP/COMPARATOR RESPONSE TIME											
DEFINITIONS	TR: TRANSLATION LOGIC D	ECODING TIME										

FIG. 6

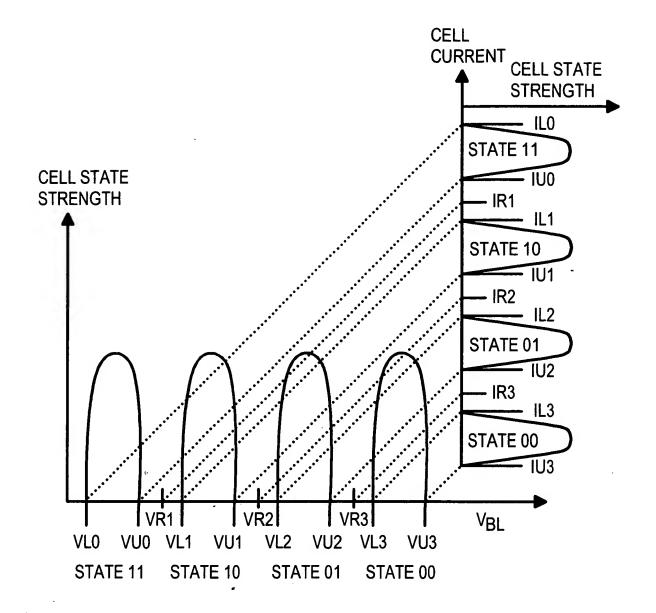
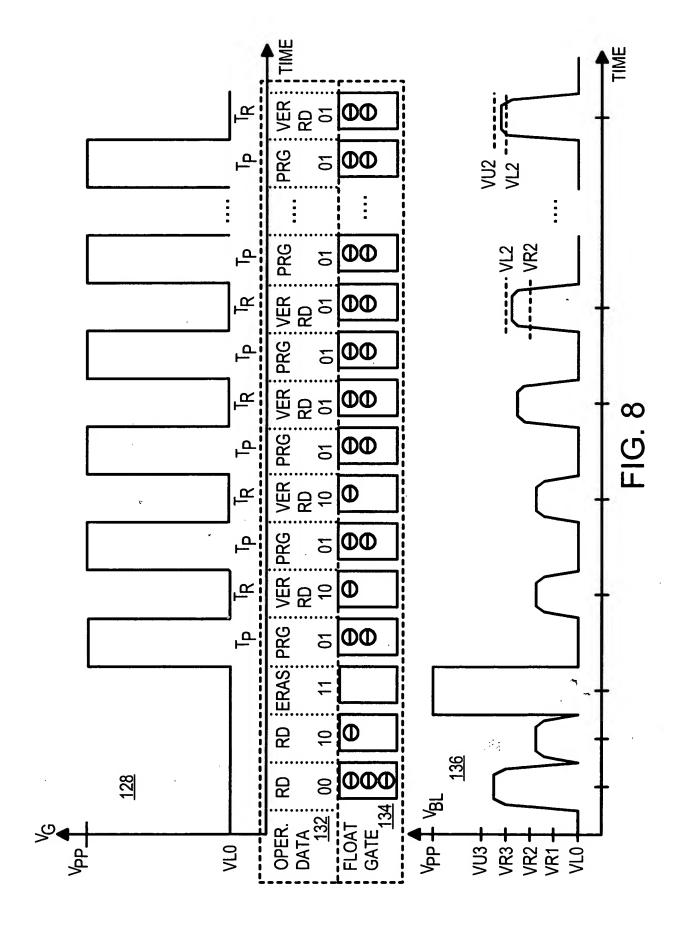


FIG. 7

1 4



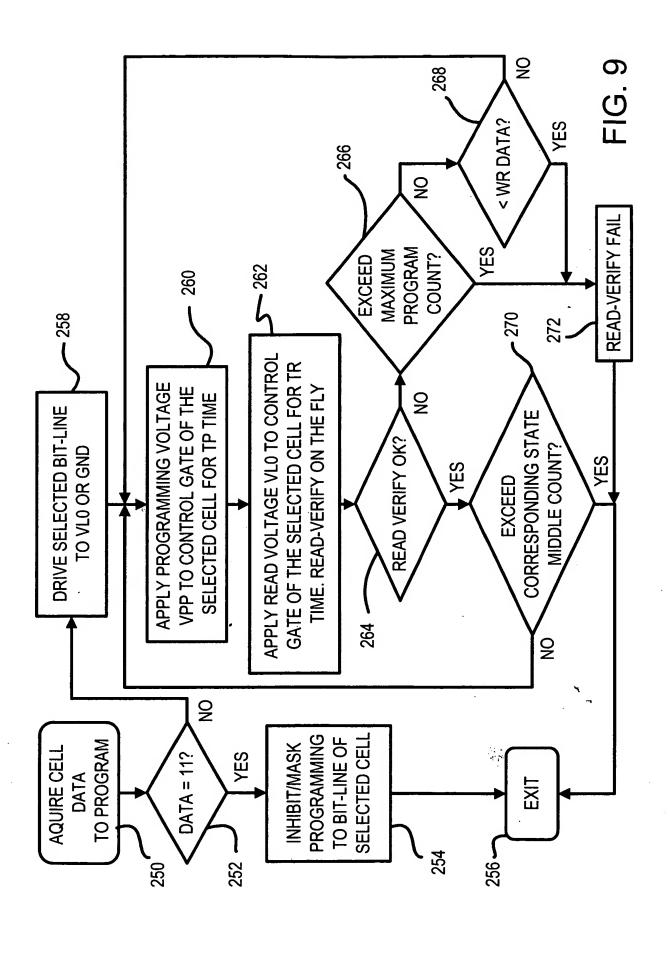


FIG. 10

		UNDER	_	0	0	1	0	0	_	0	0	1	0	0
	í	OVER	0	0	1	0	0	1	0	0	~	0	0	_
READ-	Ż	KANGE	0	1	0	0	1	0	0	1	0	0	1	0
	RD-	00	~	1	1	0	0	0	-	-	-	0	0	0
	RD-	בו	_	-	-	-	~	_	0	0	0	0	0	0
	9	103	7	l	l	ļ	-	ļ	_	-	-	ŀ	l	0
~	=	153	_	1	1	1	1	1	-	-	-	1	0	0
	9	K 3	_	1	1	7	1	1	1	7	-	0	0	0
	9	102		1	-	-	-	1	-	-	0	0	0	0
	=	12	_	7	-	-	-	1	-	0	0	0	0	0
	٠ ي	K 2	_	7	-	-	-	1	0	0	0	0	0	0
	}	101	_	~	_	~	-	0	0	0	0	0	0	0
	٩	 	-	~	~	-	0	0	0	0	0	0	0	0
	Š	<u> 동</u>	~	-	_	0	0	0	0	0	0	0	0	0
	9	001	~	1	0	0	0	0	0	0	0	0	0	0
	=	0	~	0	0	0	0	0	0	0	0	0	0	0
READ	SUB-	SIAIE	~	2	က	4	2	9	7	80	6	10	11	12

READ-	LESS	0	0	0	0	-	0	0	0	1	1	0	0	1	1	-	0
READ-	FQUAL	1	0	0	0	0	T	0	0	0	0	1	0	0	0	0	1
	RD-D0	0	1	0	1	0	1	0	Į.	0	1	0	1	0	1	0	1
	RD-D1	0	0	-	1	0	0	1	1	0	0	1	1	0	0	1	1
	WR-D0	0	0		0	1	1	1	1	0	0	0	0	1	1	1	1
	WR-D1	0	0	0	, 0	0	0	0	0	1	l l	L	1	l l	l	L	1
READ-	STATE	1	2	ဘ	4	2	9	7	8	6	10	11	12	13	14	15	16

FIG. 11

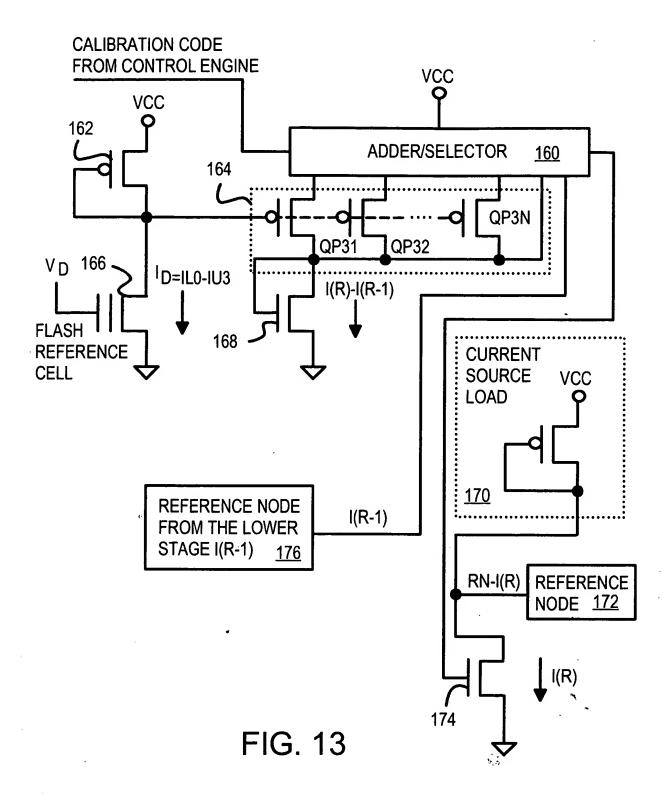
CURRENT REFERENCE NODE	CURRENT REFERENCE
RN-IU3	IU3
RN-IL3	IL3 = IU3 + DELTA IL3
RN-IR3	IR3 = IL3 + DELTA IR3
RN-IU2	1U2 = IR3 + DELTA 1U2
RN-IL2	IL2 = IU2 + DELTA IL2
RN-IR2	IR2 = IL2 + DELTA IR2
RN-IU1	1U1 = IR2 + DELTA 1U1
RN-1L1	IL1 = IU1 + DELTA IL1
RN-IR1	IR1 = IL1 + DELTA IR1
RN-IU0	IU0 = IR1 + DELTA IU0
RN-IL0	ILO = IUO + DELTA ILO

FIG. 12A

N.

	DELTA REFERENCE	CURRENT	0	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	13/16	14/16	15/16
1/16		QP34	0	_	0	-	0	1	0	1	0	1	0	1	0	1	0	1
1/8		QP33	0	0	1	1	0	0	1	1	0	0	1	1	0	.0	1	1
1/4		QP32	0	0	0	0	1	1	1	-	0	0	0	0	1	1	1	_
1/2		QP31	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	_
WEIGHT OF ID	CALIBRATION	CODE	0	1	2	3	4	သ	9	7	œ	6	10	1	. 12	13	14	15

FIG. 12B



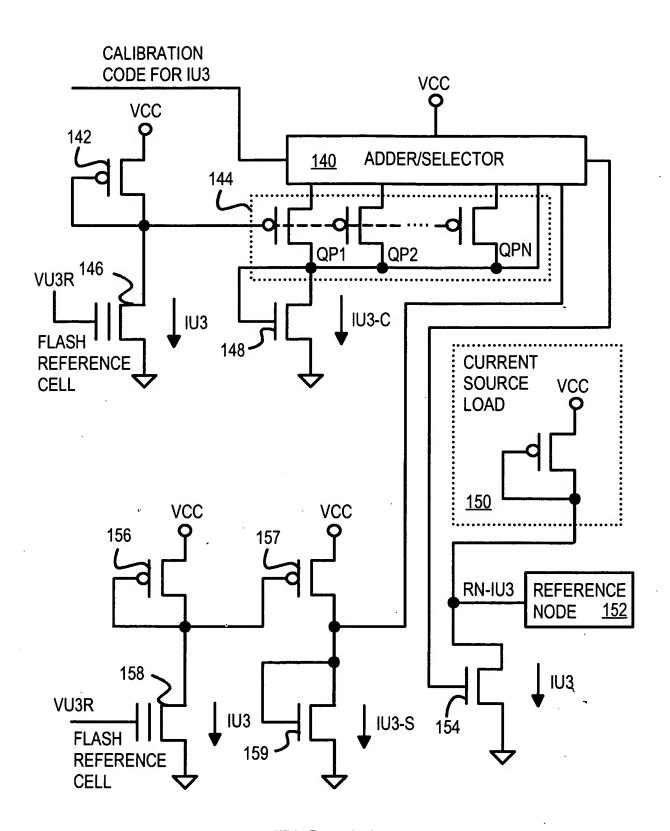


FIG. 14